ELSEVIER

Soil & Tillage Research 43 (1997) 357–358

Soil & Tillage Research

Contents of *Soil & Tillage Research*, Volume 43

Vol. 43 Nos. 1,2 **October 1997**

Foreword 1
Obituary: Cornelis (Cees) van Ouwerkerk 5
Soil tilth–the desired soil structural state obtained through proper soil fragmentation and reorientation processes
A. Hadas (Bet Dagan, Israel) 7
Physical properties of tilled soils
A.R. Dexter (Bedford, UK) 41
Soil and crop responses to soil tillage systems: a Polish perspective
L. Malicki (Lublin, Poland), J. Nowicki and Z. Szwejkowski (Olsztyn-Kortowo, Poland) 65
Residue management, conservation tillage and soil restoration for mitigating greenhouse effect by CO_2-enrichment
R. Lal (Columbus, OH, USA) 81
Socio-economics of alternative tillage systems
D.P. Stonehouse (Guelph, Canada) 109
The role of soil organic matter in maintaining soil quality in continuous cropping systems
D.W. Reeves (Auburn, AL, USA) 131
Soil management in perennial crops: orchards and hop gardens
J. Lipecki and S. Berbeć (Lublin, Poland) 169
Experience in developing erosion resistant agrolandscapes on large watersheds (a case study from the Ukraine)
V.V. Medvedev and S.Y. Bulygin (Kharkiv, Ukraine) 185

Vol. 43 Nos. 3,4 **November 1997**

Effect of design parameters of flat tillage tools on loosening of a clay soil
E. McKyes (Ste. Anne de Bellevue, Canada) and J. Maswaure (Harare, Zimbabwe) 195
Correction of cone index for soil water content differences in a coastal plain soil
W.J. Busscher, P.J. Bauer, C.R. Camp (Florence, SC, USA) and R.E. Sojka (Kimberly, ID, USA) . 205
Effect of deep tillage on soil physical characteristics and corn (*Zea mays* L.) root growth and production
E.C. Varsa, S.K. Chong, J.O. Abolaji, D.A. Farquhar and F.J. Olsen (Carbondale, IL, USA). 219
Effect of tillage and contour diking on sorghum establishment and yield on sandy clay soil in Sudan
M.A. Omer and E.M. Elamin (El Obeid, Sudan) 229
Effects of deep tillage under rainfed agriculture on production of sorghum (*Sorghum biocolor* L. Moench) intercropped with green gram (*Vigna radiata* L. Wilczek) in western India
K.C. Laddha and K.L. Totawat (Arjia-Bhilwara, India). 241
Earthworm channels in cultivated clayey and loamy Norwegian soils
T.E. Sveistrup (Tromsø, Norway), T. Knapp Haraldsen and F. Engelstad (Ås, Norway) 251

Barley, canola and wheat production under different tillage–fallow–green manure combinations on a clay soil in a cold, semiarid climate
M.A. Arshad and K.S. Gill (Beaverlodge, Canada) 263
Influence of tillage, crop rotation and nitrogen fertilization on soil organic matter and nitrogen under rain-fed Mediterranean conditions
L. López-Bellido (Córdoba, Spain), F.J. López-Garrido (Ciudad Real, Spain), M. Fuentes, J.E. Castillo (Córdoba, Spain) and E.J. Fernández (Almería, Spain) 277
Wear of symmetrical wedge-shaped tillage tools
Z. Owsiak (Wrocław, Poland) 295
Effects of trench planting and soil chiselling on soil properties and citrus production in hilly ultisols of China
J. Lu (Hangzhou, China), M.J. Wilson (Aberdeen, UK) and J. Yu (Hangzhou, China) 309
Evaluation of fallow management practices in a rainfed vertisol of peninsular India
R. Selvaraju and C. Ramaswami (Tamil Nadu, India) 319
Assessing the compaction susceptibility of South African forestry soils. II. Soil properties affecting compactibility and compressibility
C.W. Smith, M.A. Johnston and S. Lorentz (Scottsville, South Africa) 335

Author Index 355

Contents of *Soil & Tillage Research*, Volume 43 357